FOFTHO 3N0SEE800

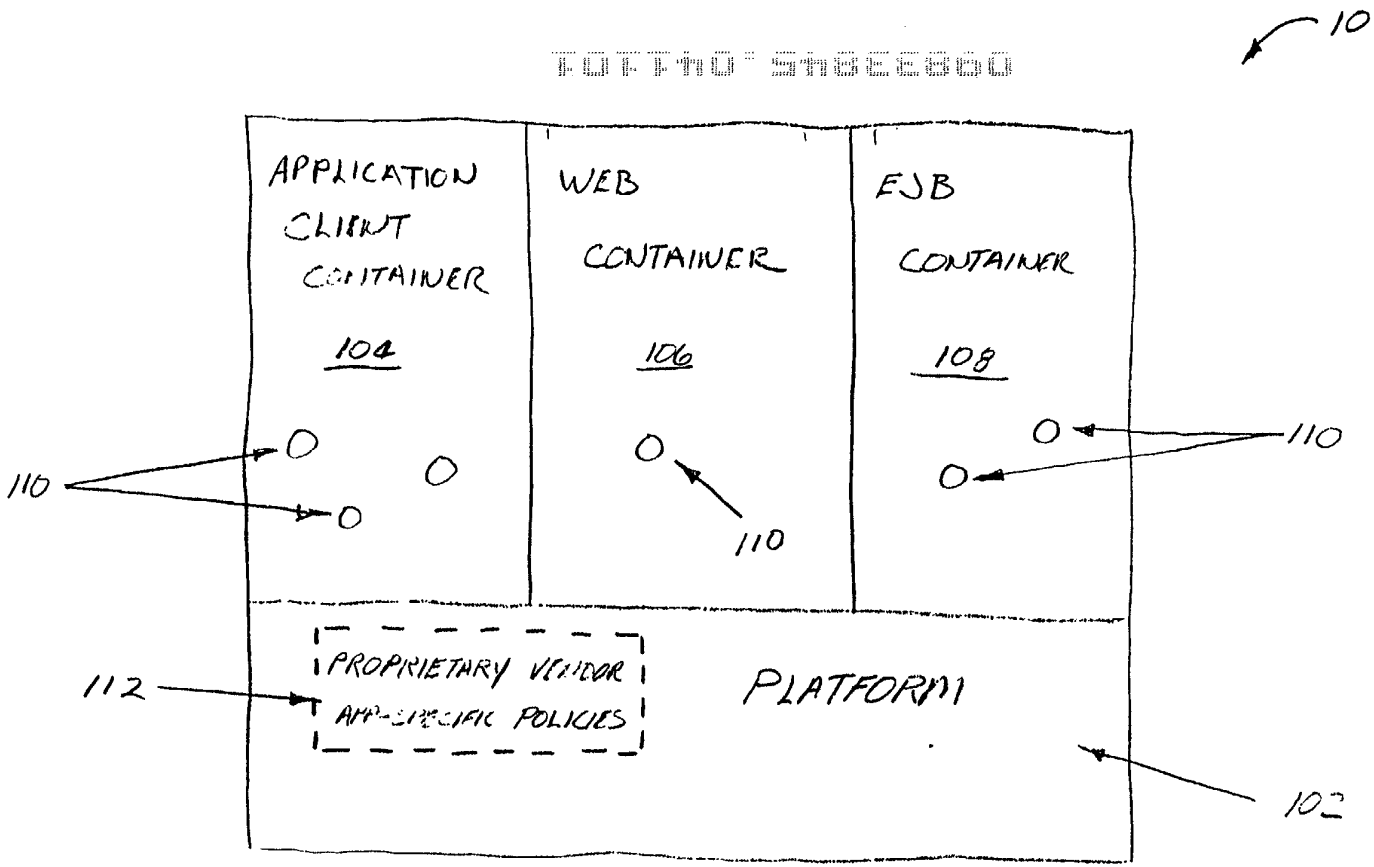

Fig. 1
(PRIOR ART)

EDITED SHEET

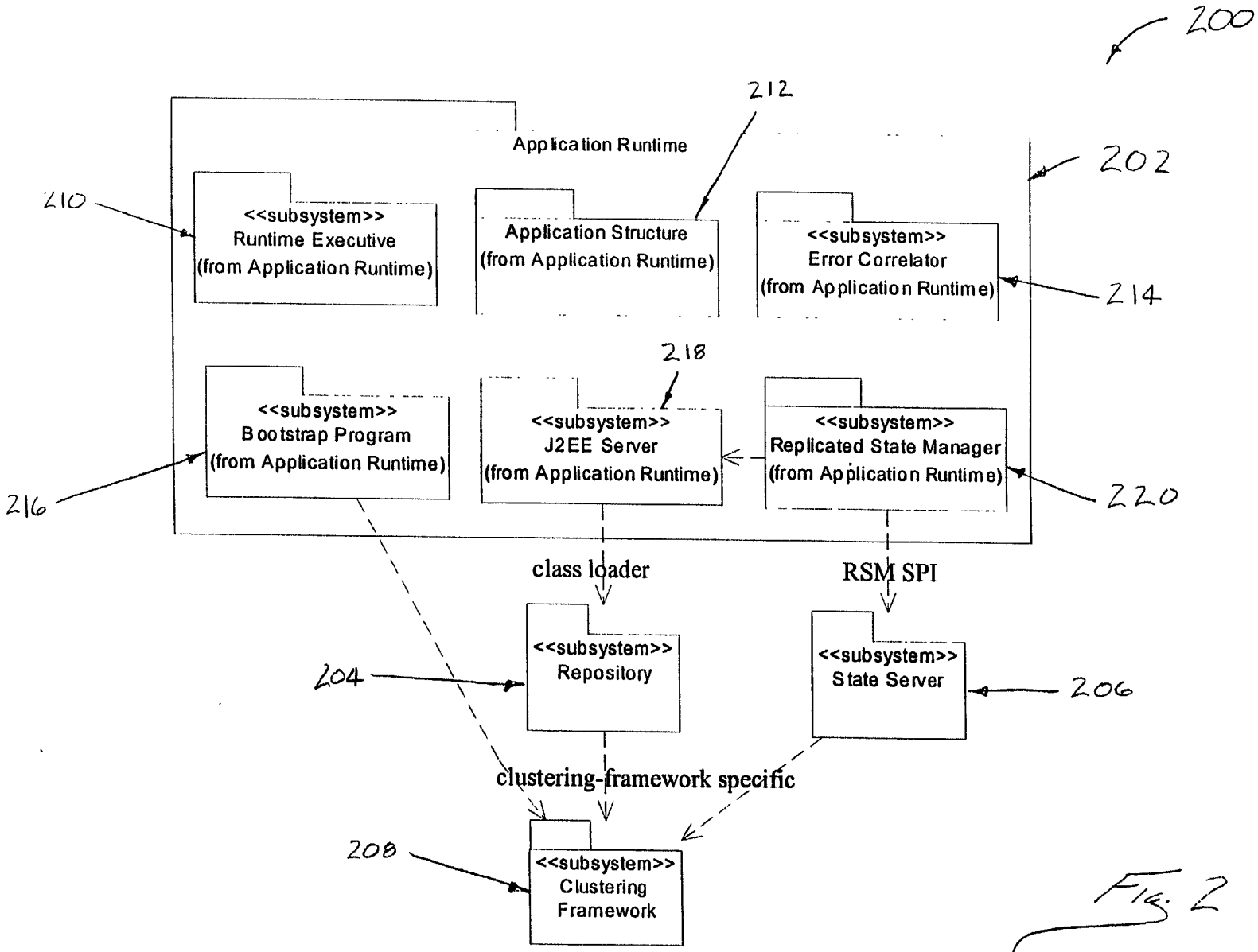

Fig. 2

FOPTHO SHSEC3B5O

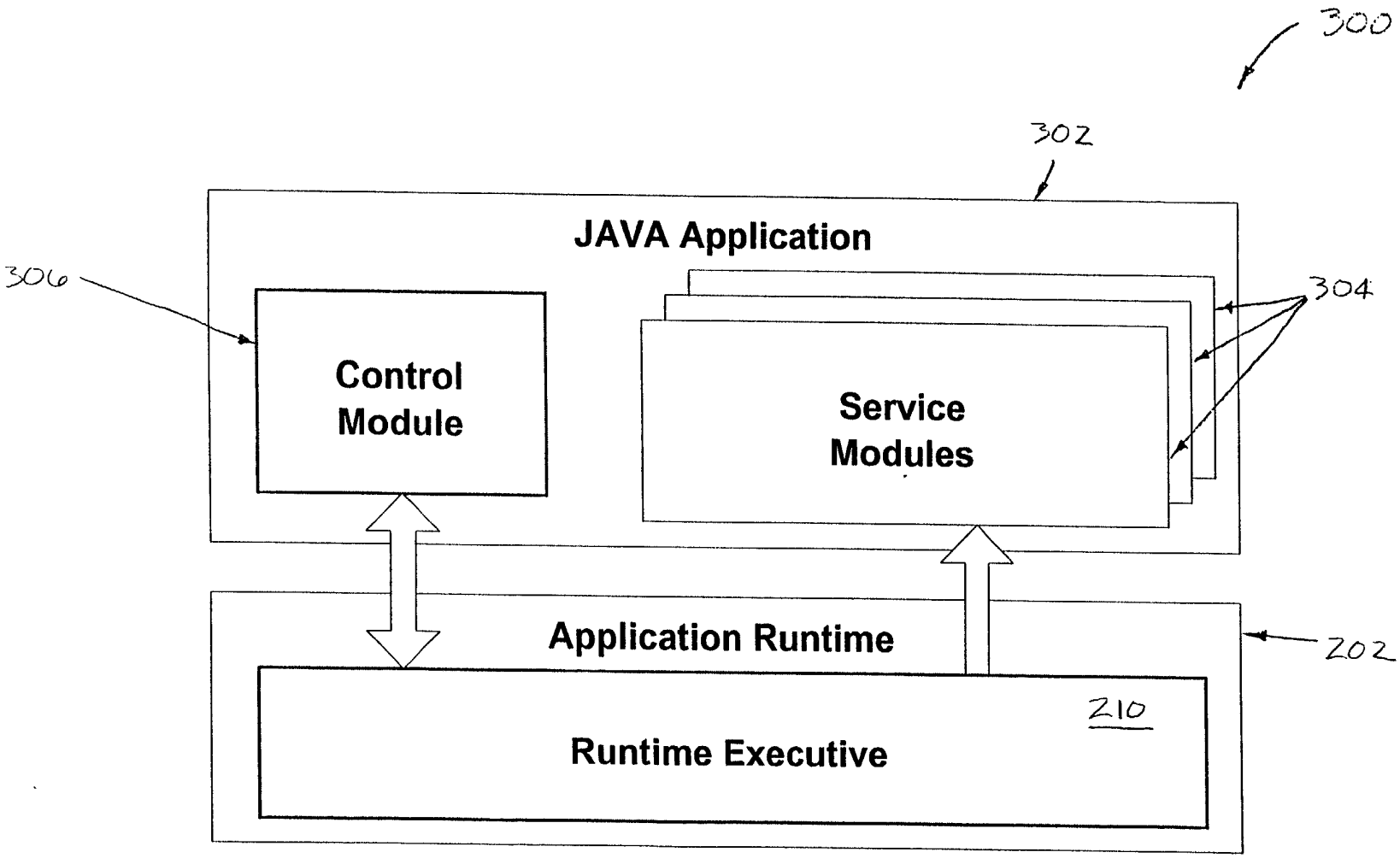

Fig 3A

EOTHO SH6EE6OD

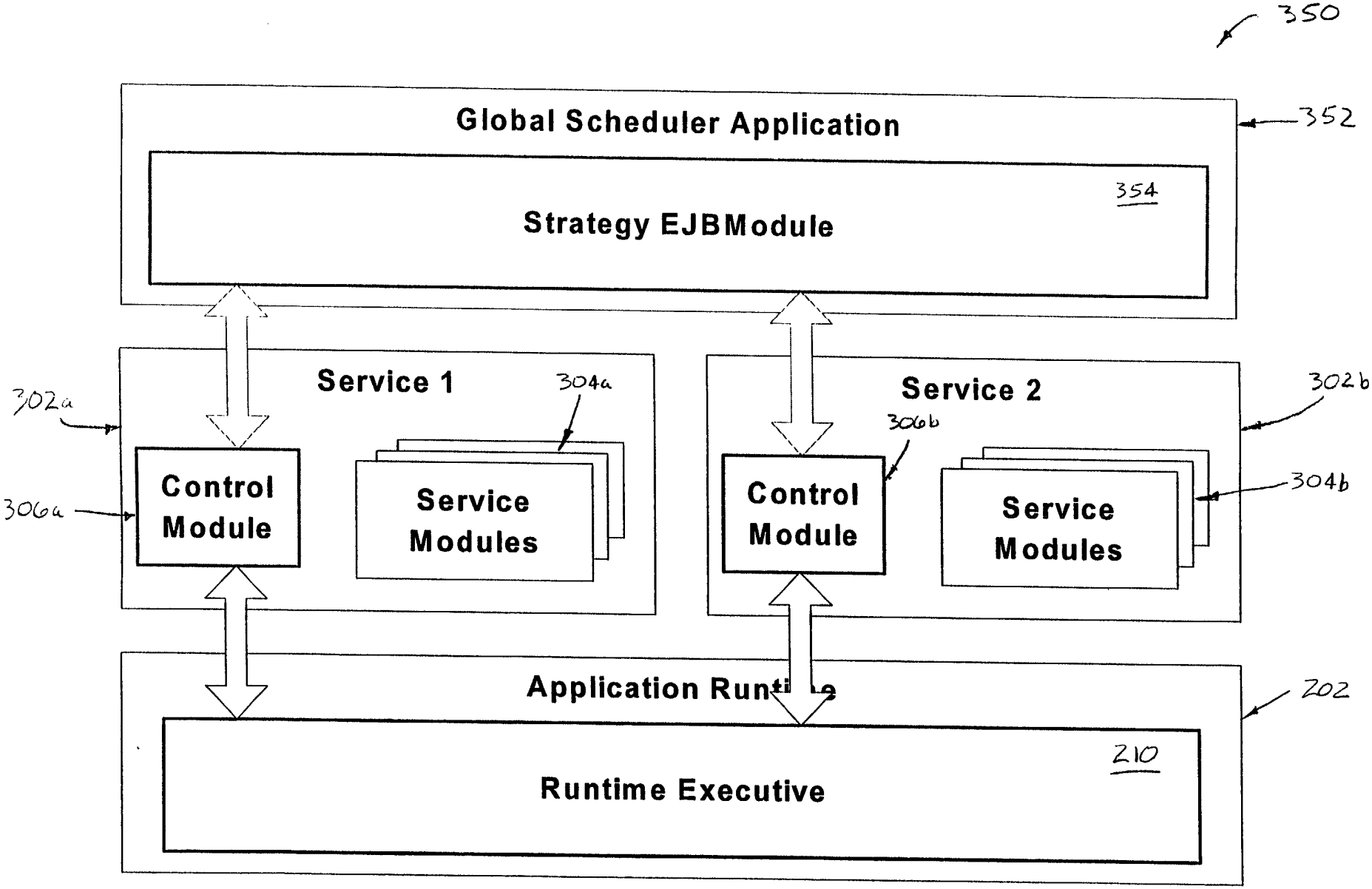

Fig 3B

FOREIGN SEARCHED

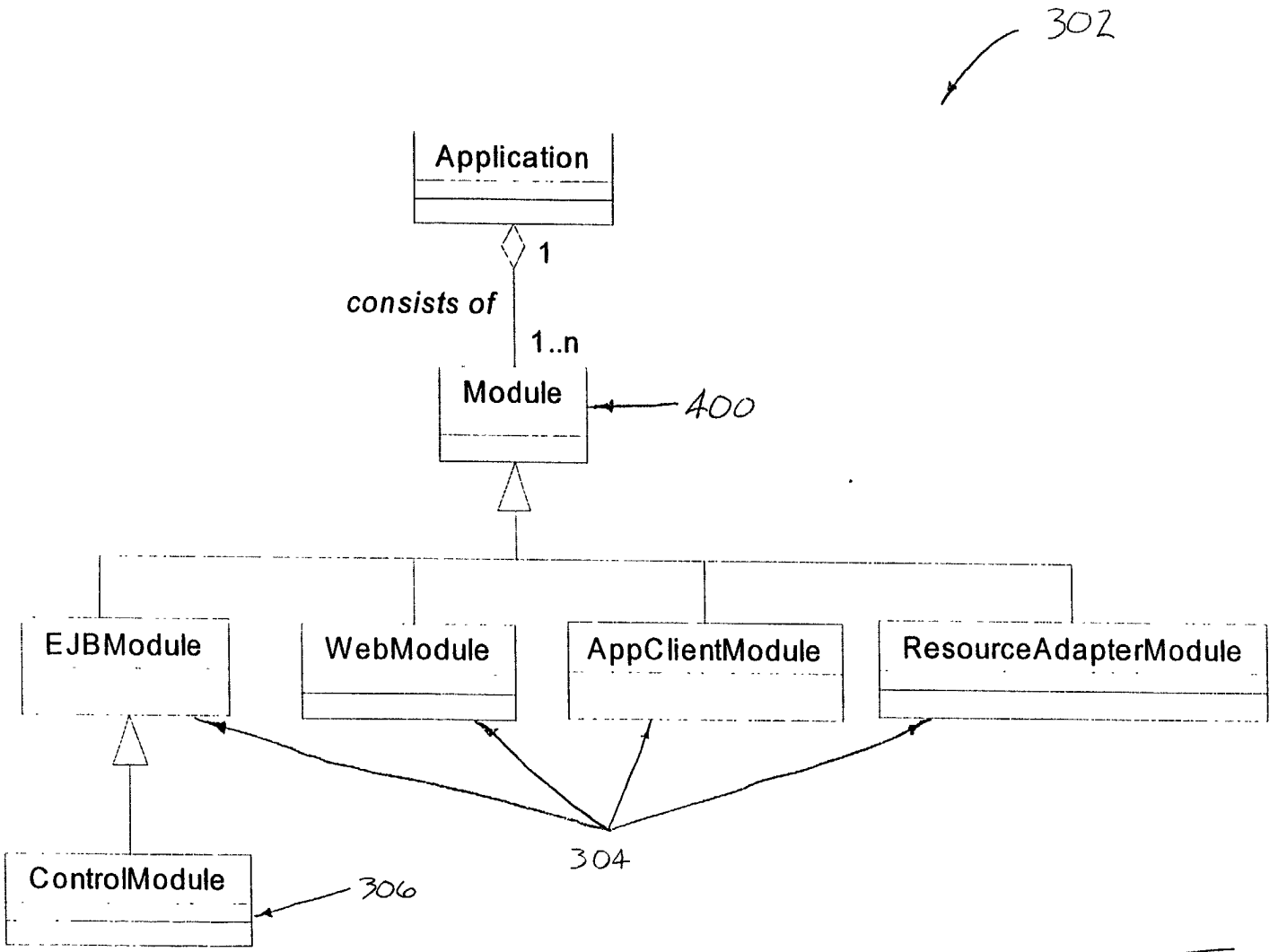

Fig 4

FOR PAIR SHEET 360

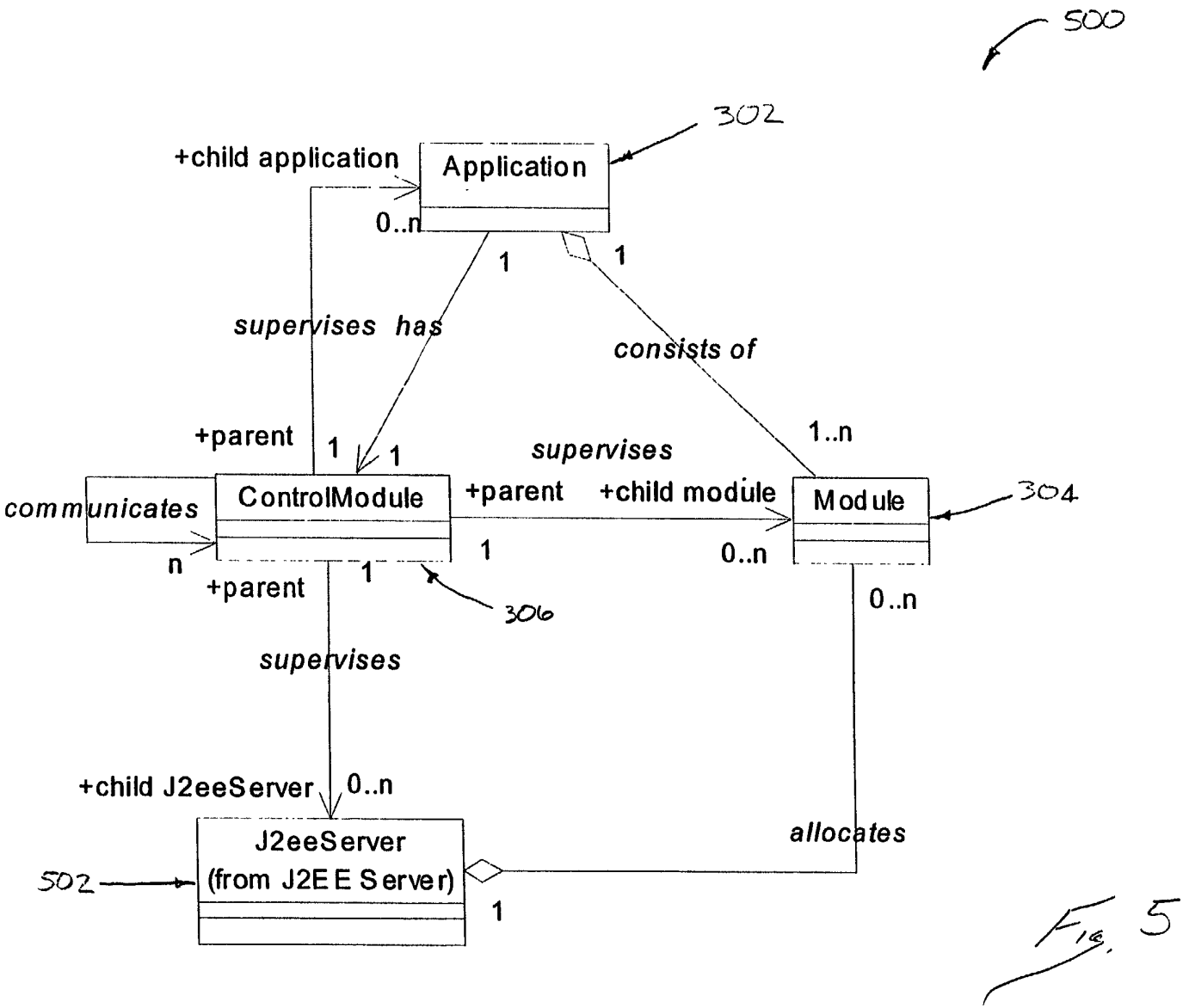

Fig. 5

FOUND SHEET

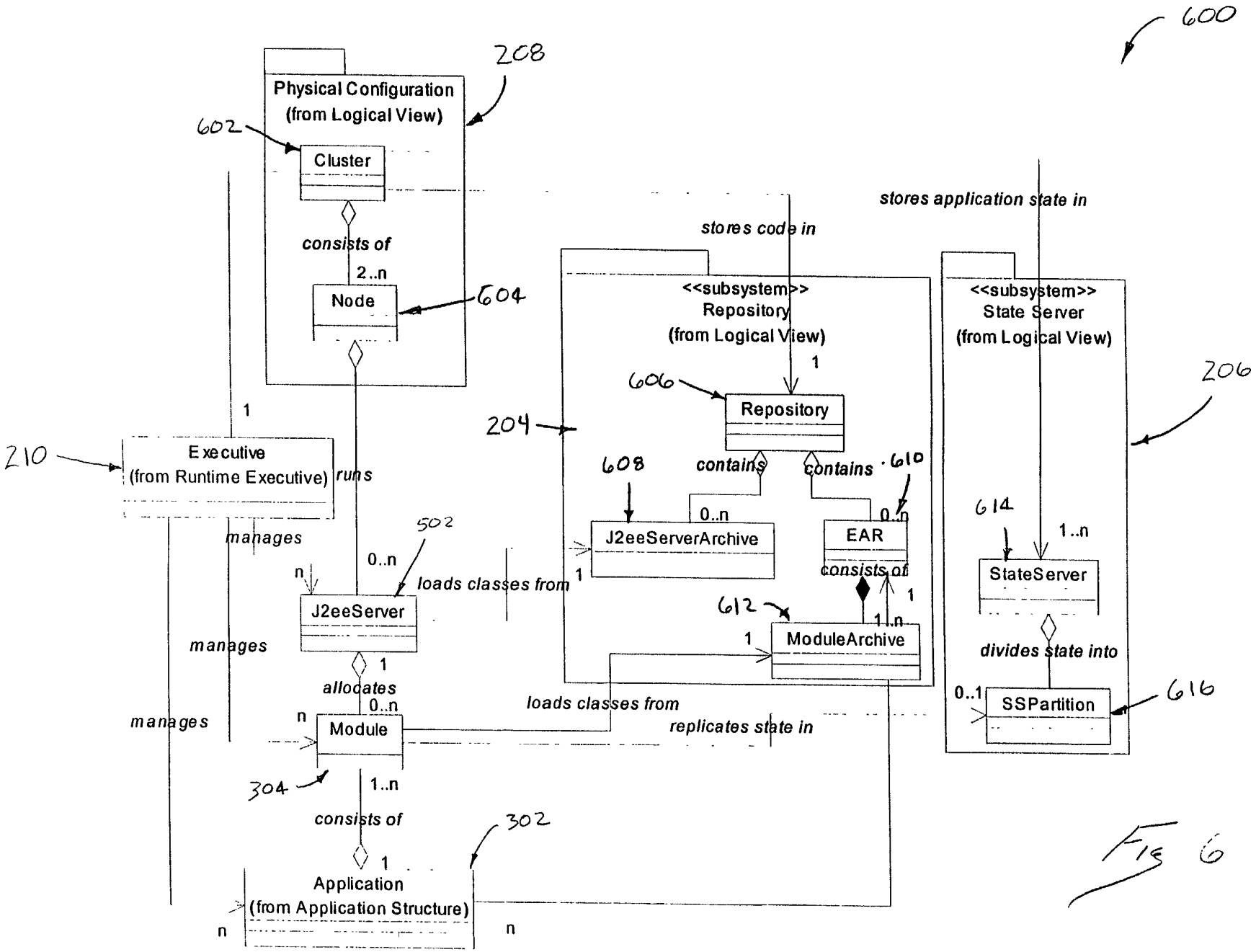

FIG 6

FOR THD SHEET

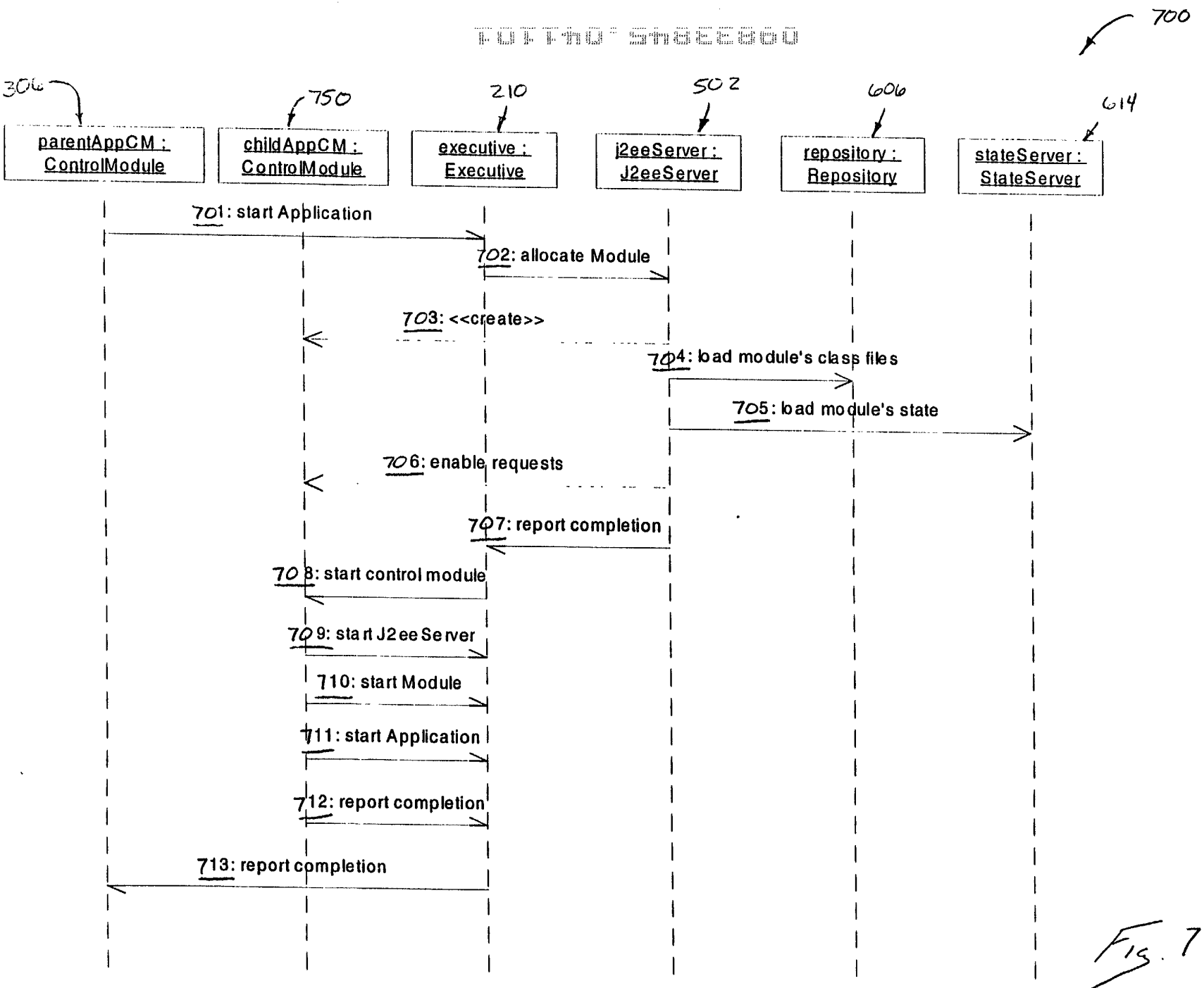

Fig. 7

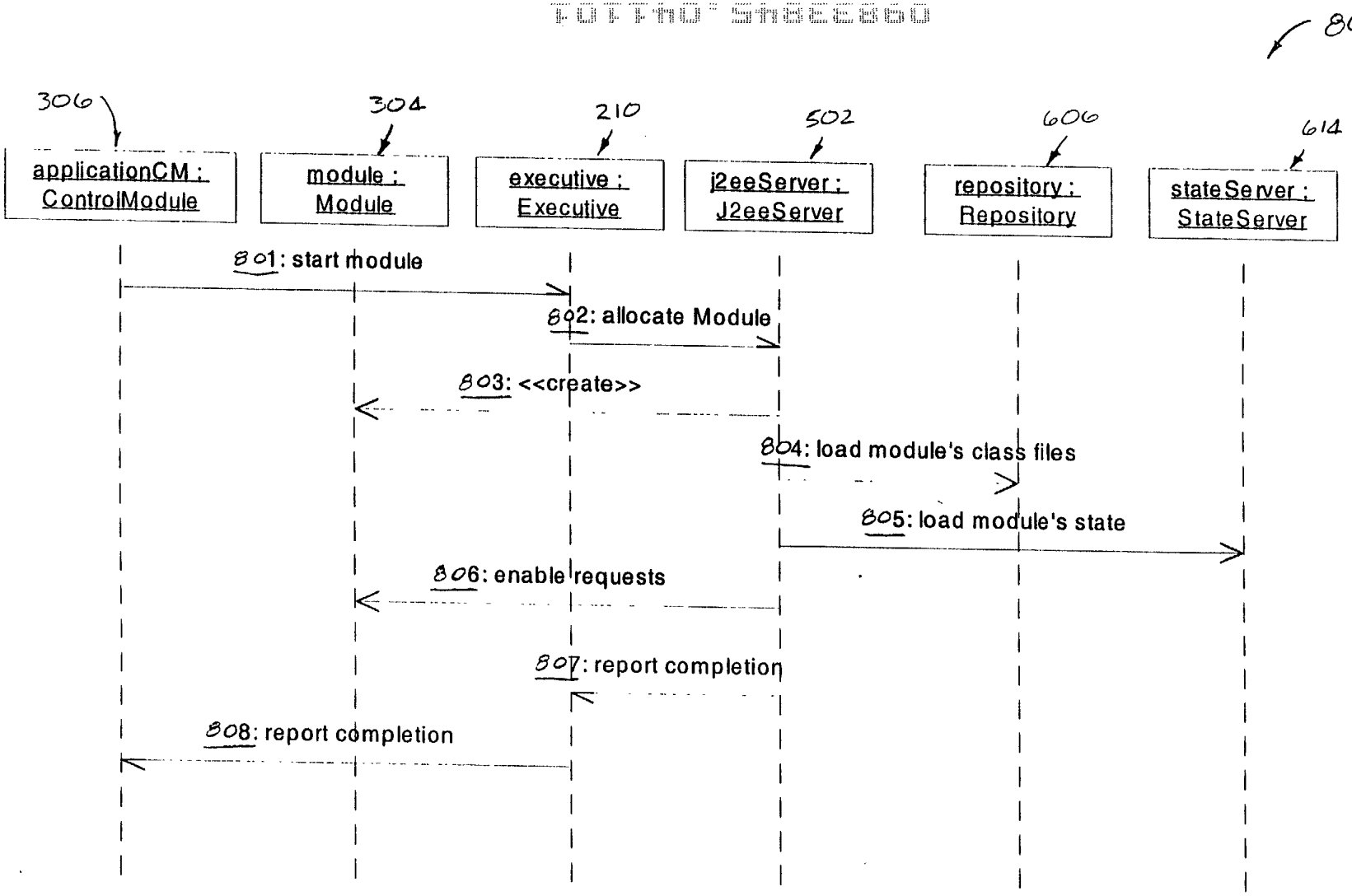
800
306
304
210
502
606
614
applicationCM : ControlModule
module : Module
executive : Executive
j2eeServer : J2eeServer
repository : Repository
stateServer : StateServer
801: start module
802: allocate Module
803: <<create>>
804: load module's class files
805: load module's state
806: enable requests
807: report completion
808: report completion

Fig 8

DOCKET SWIFT360

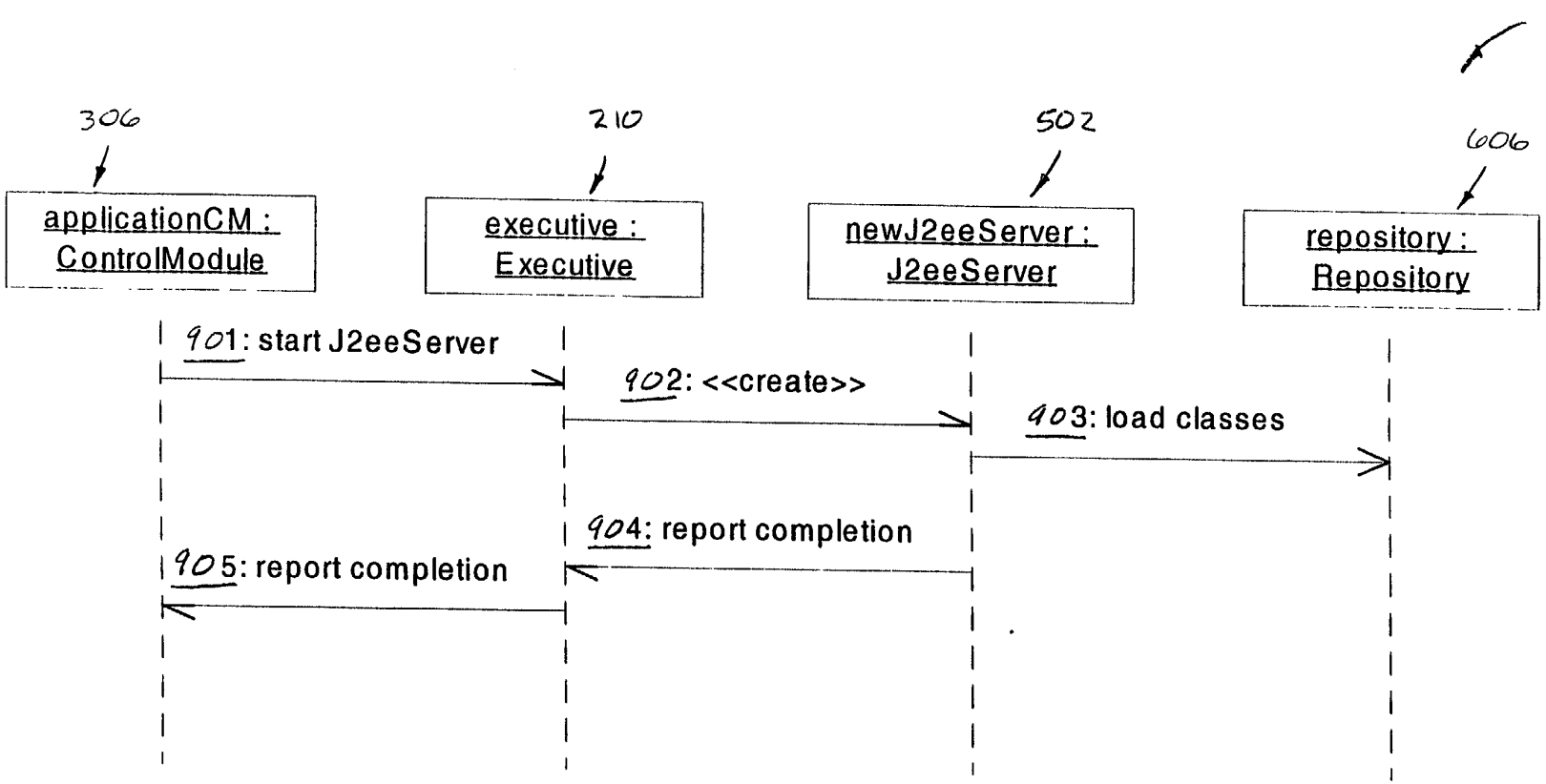

FIG 9

DRAFT SHEET

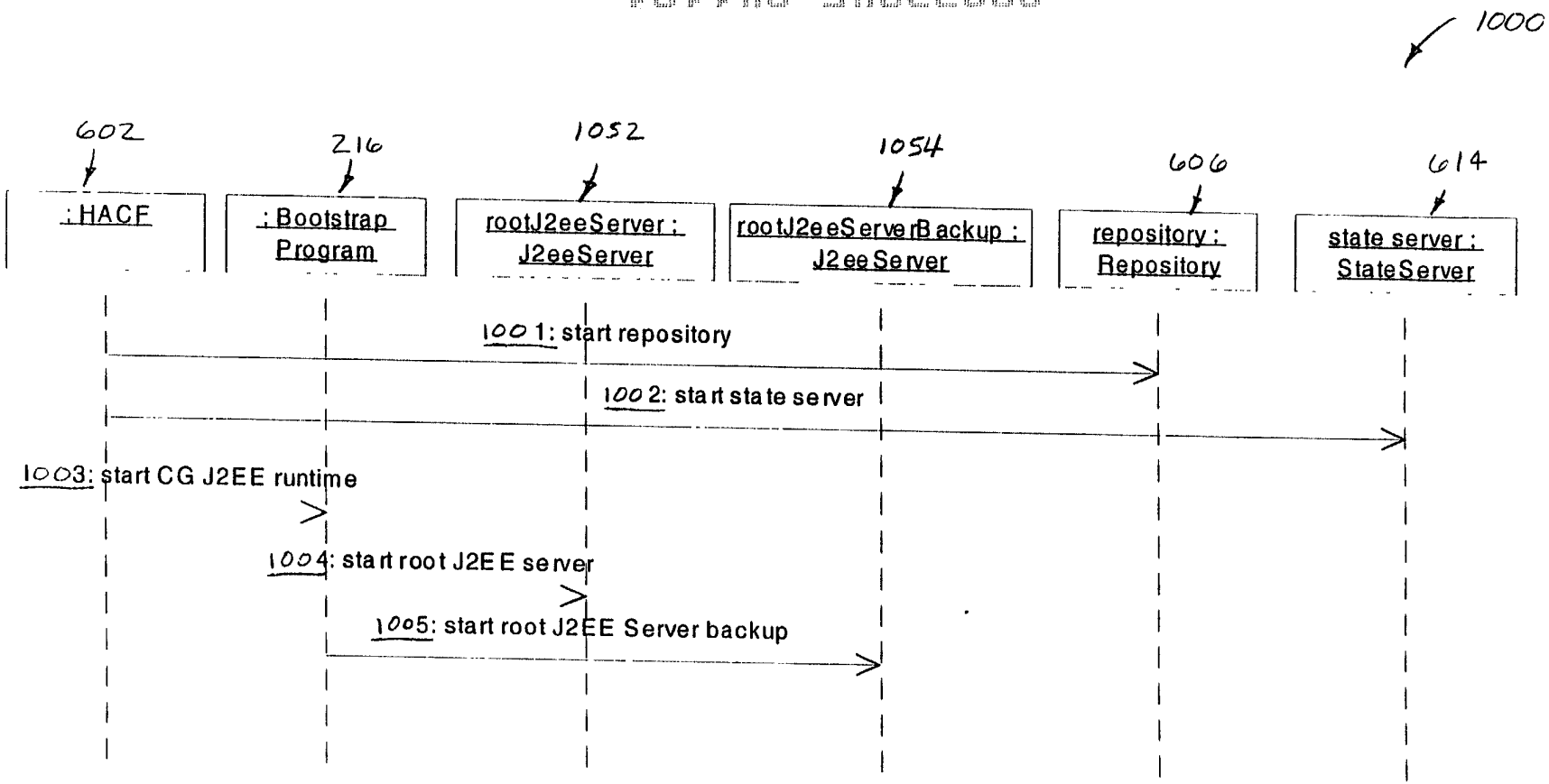

Fig 10A

FOR PAID SUBSCRIBERS

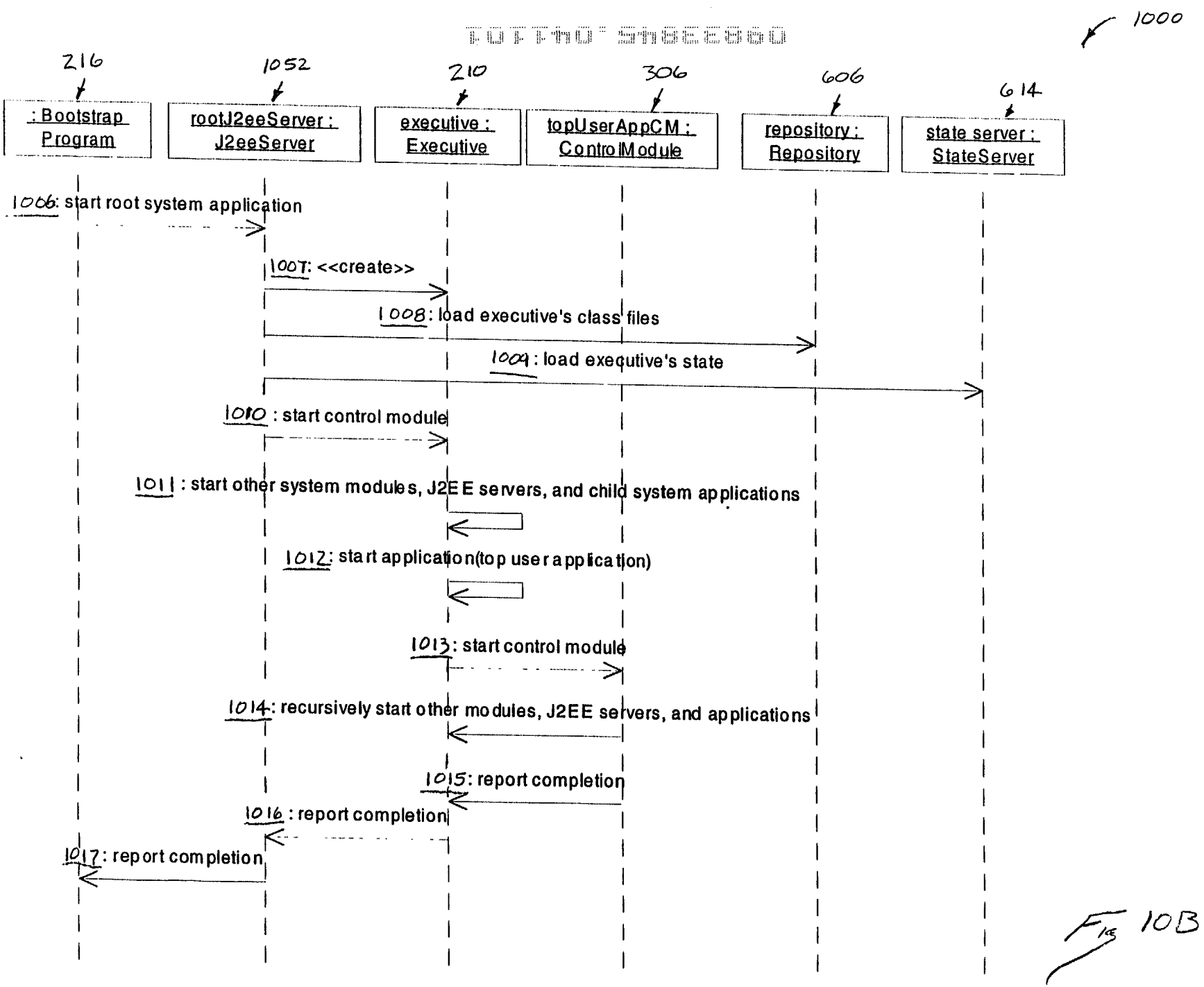

Fig 10B

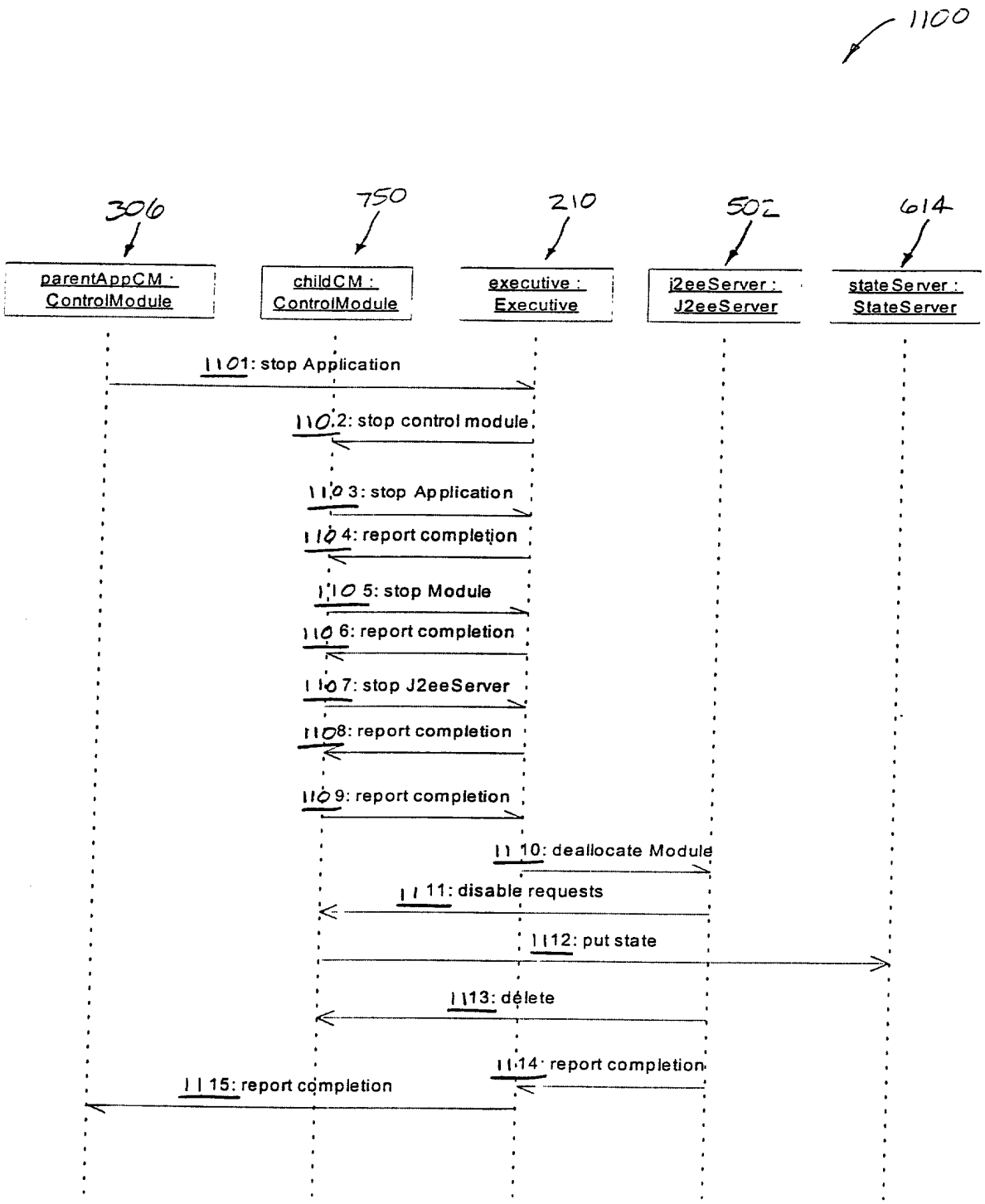
1100
306
750
210
502
614
parentAppCM : ControlModule
childCM : ControlModule
executive : Executive
j2eeServer : J2eeServer
stateServer : StateServer
1101: stop Application
1102: stop control module
1103: stop Application
1104: report completion
1105: stop Module
1106: report completion
1107: stop J2eeServer
1108: report completion
1109: report completion
1110: deallocate Module
1111: disable requests
1112: put state
1113: delete
1114: report completion
1115: report completion

Fig. 11

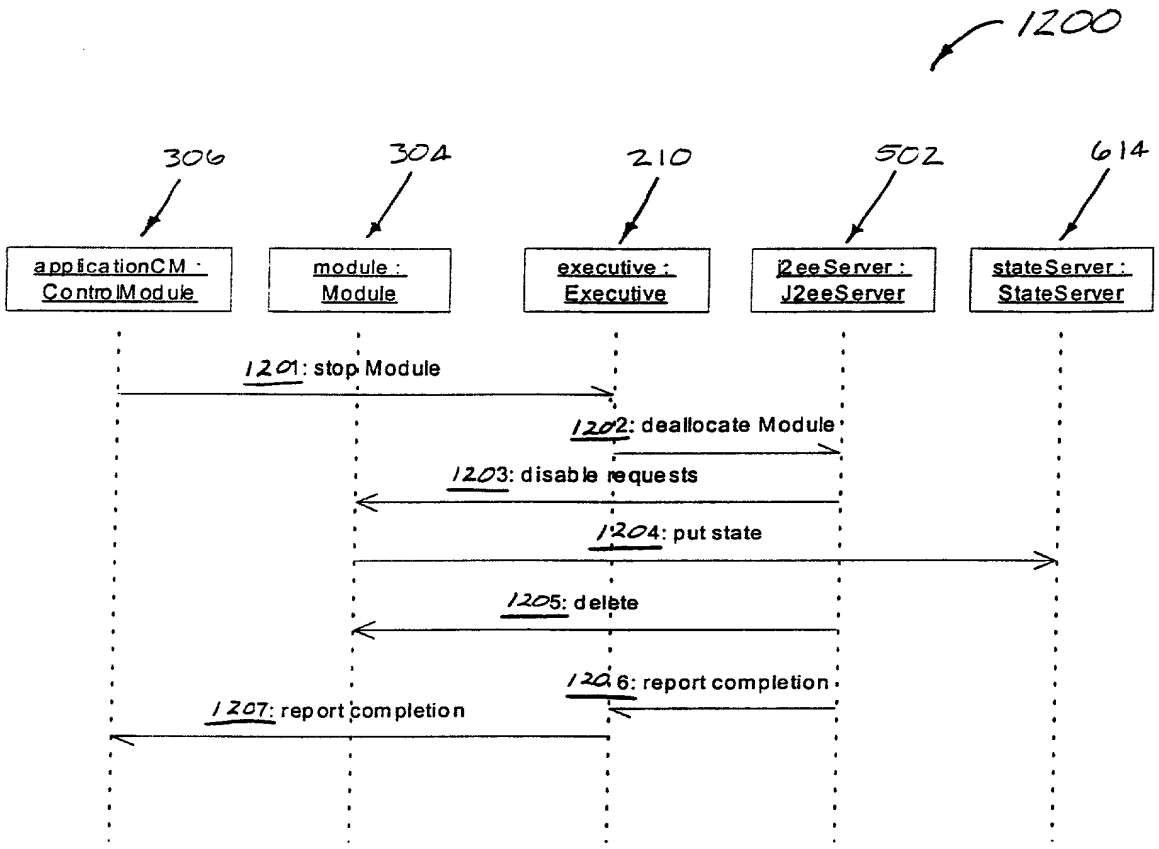
1200
306
304
210
502
614
applicationCM : ControlModule
module : Module
executive : Executive
j2eeServer : J2eeServer
stateServer : StateServer
1201: stop Module
1202: deallocate Module
1203: disable requests
1204: put state
1205: delete
1206: report completion
1207: report completion

Fig. 12

FORTHO SHSEE360

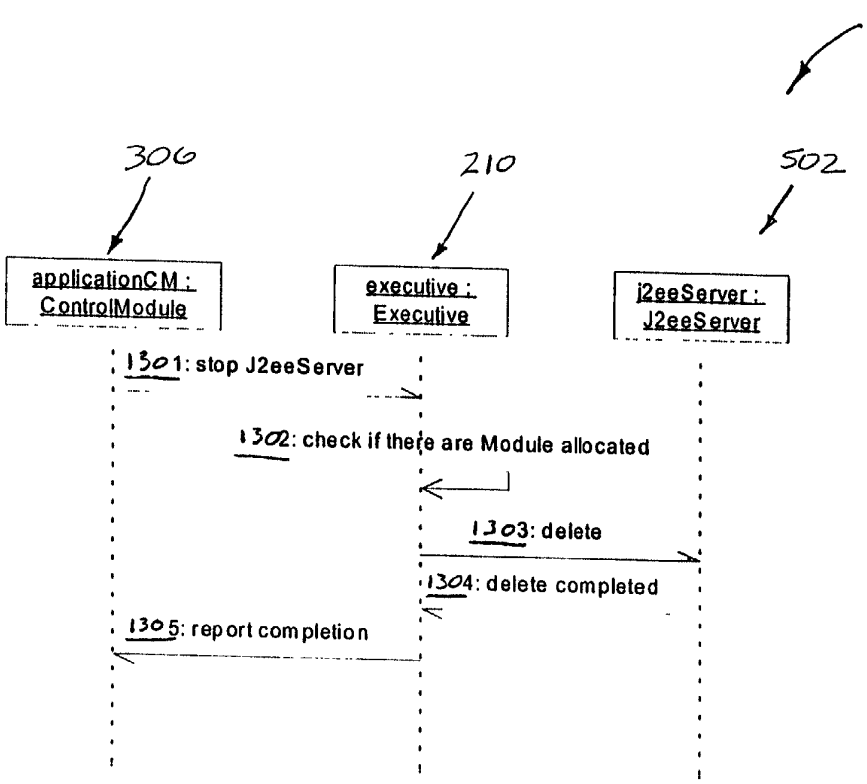

Fig. 13

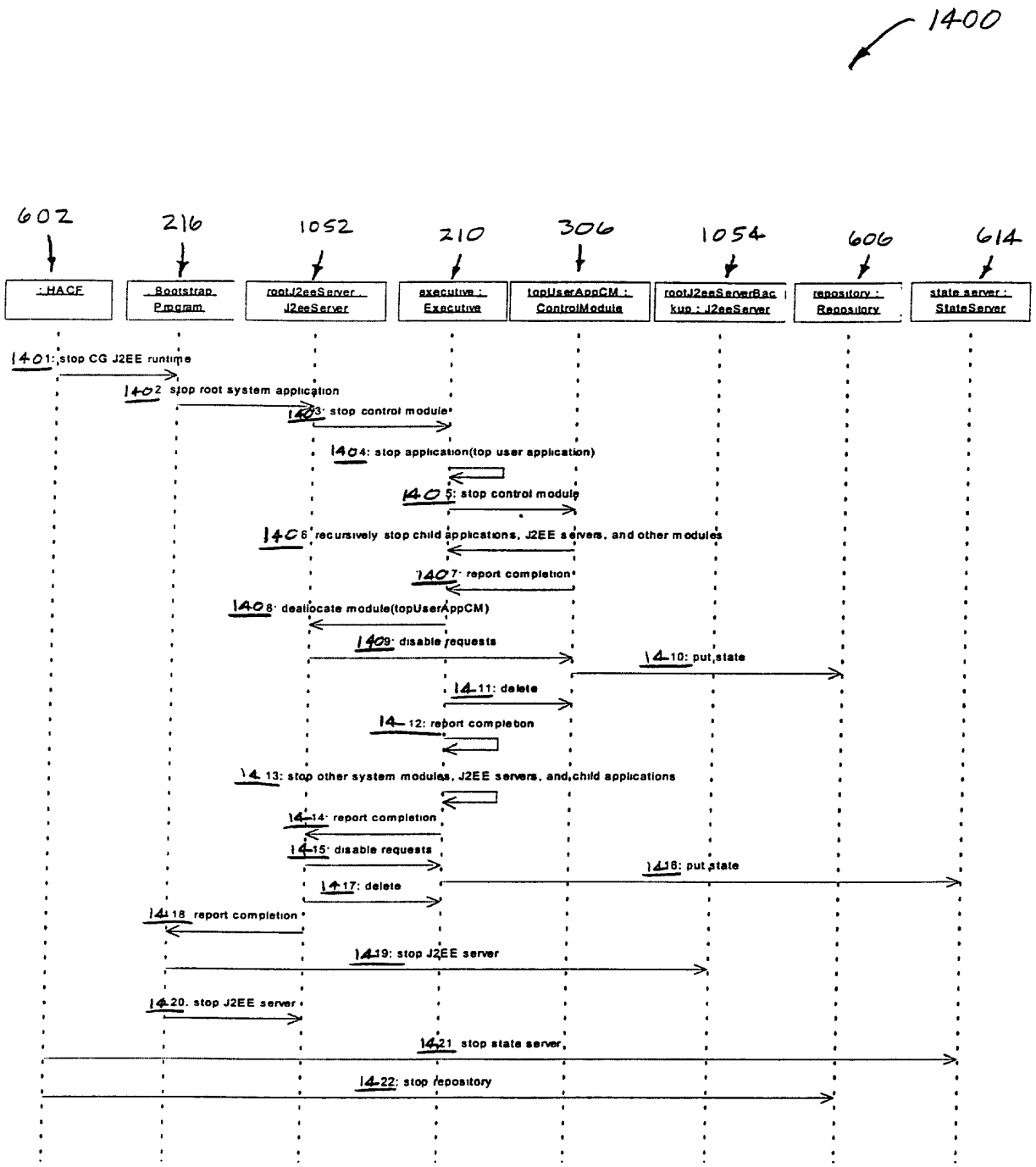
1400
602
216
1052
210
306
1054
606
614
:HACF
Bootstrap Program
rootJ2eeServer : J2eeServer
executive : Executive
topUserAppCM : ControlModule
rootJ2eeServerBackup : J2eeServer
repository : Repository
state server : StateServer
1401: stop CG J2EE runtime
1402 stop root system application
1403: stop control module
1404: stop application(top user application)
1405: stop control module
1406 recursively stop child applications, J2EE servers, and other modules
1407: report completion
1408: deallocate module(topUserAppCM)
1409: disable requests
1410: put state
1411: delete
1412: report completion
1413: stop other system modules, J2EE servers, and child applications
1414: report completion
1415: disable requests
1416: put state
1417: delete
1418 report completion
1419: stop J2EE server
1420. stop J2EE server
1421 stop state server
1422: stop repository

Fig. 14

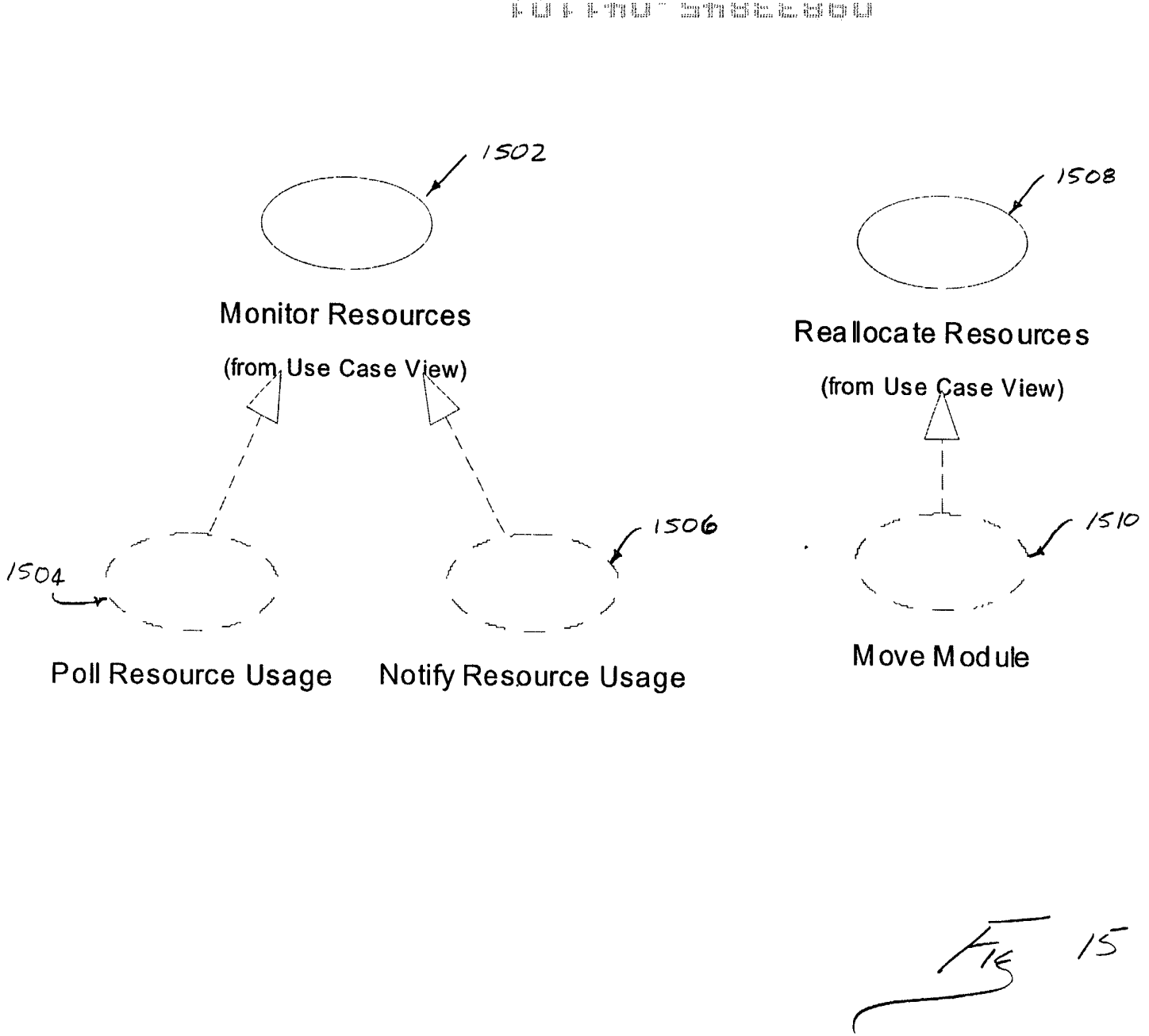
1500
1502
Monitor Resources
(from Use Case View)
1504
1506
Poll Resource Usage
Notify Resource Usage
1508
Reallocate Resources
(from Use Case View)
1510
Move Module

FIG 15

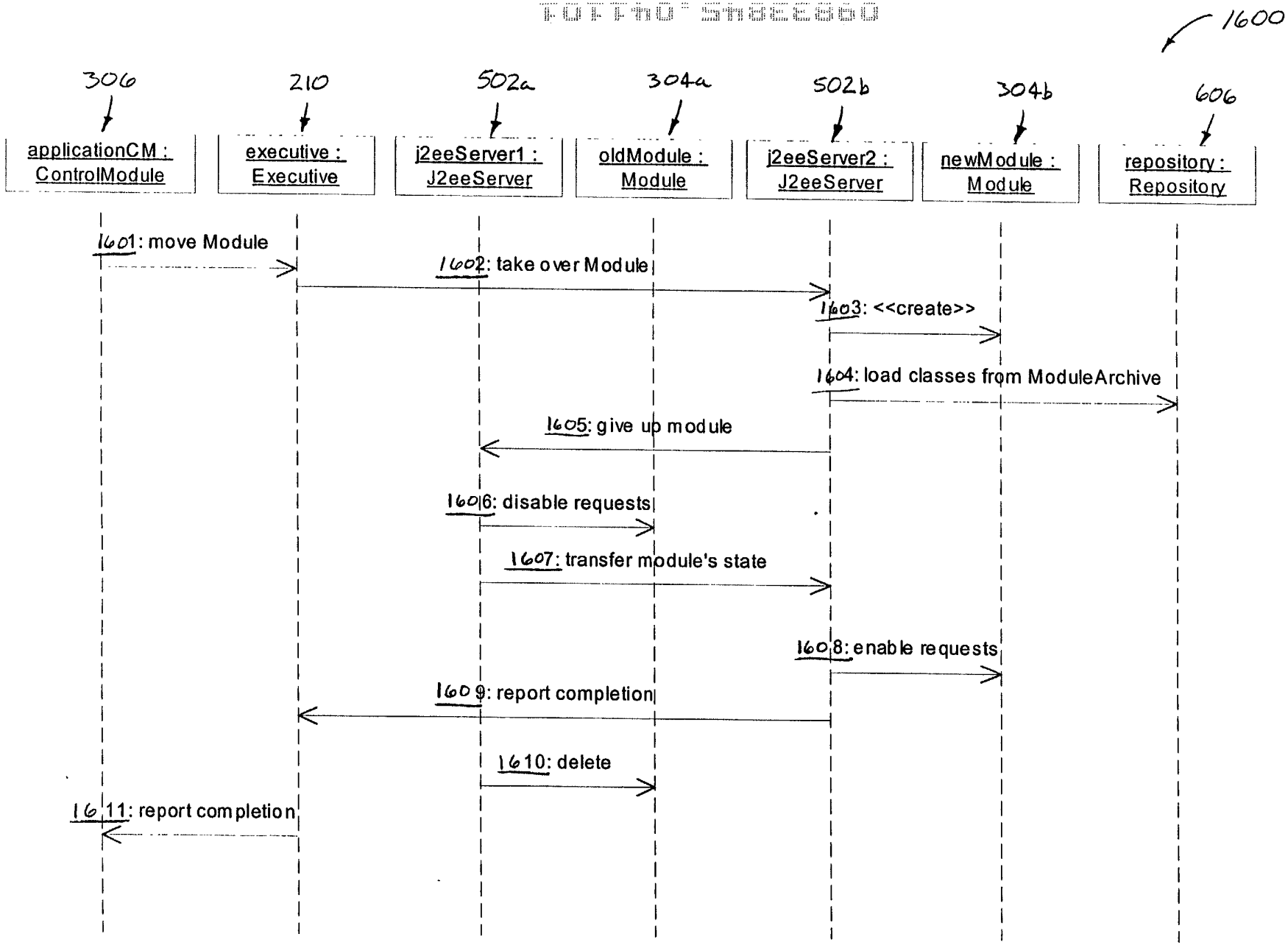
1600
306
210
502a
304a
502b
304b
606
applicationCM : ControlModule
executive : Executive
j2eeServer1 : J2eeServer
oldModule : Module
j2eeServer2 : J2eeServer
newModule : Module
repository : Repository
1601: move Module
1602: take over Module
1603: <<create>>
1604: load classes from ModuleArchive
1605: give up module
1606: disable requests
1607: transfer module's state
1608: enable requests
1609: report completion
1610: delete
1611: report completion

Fig. 16

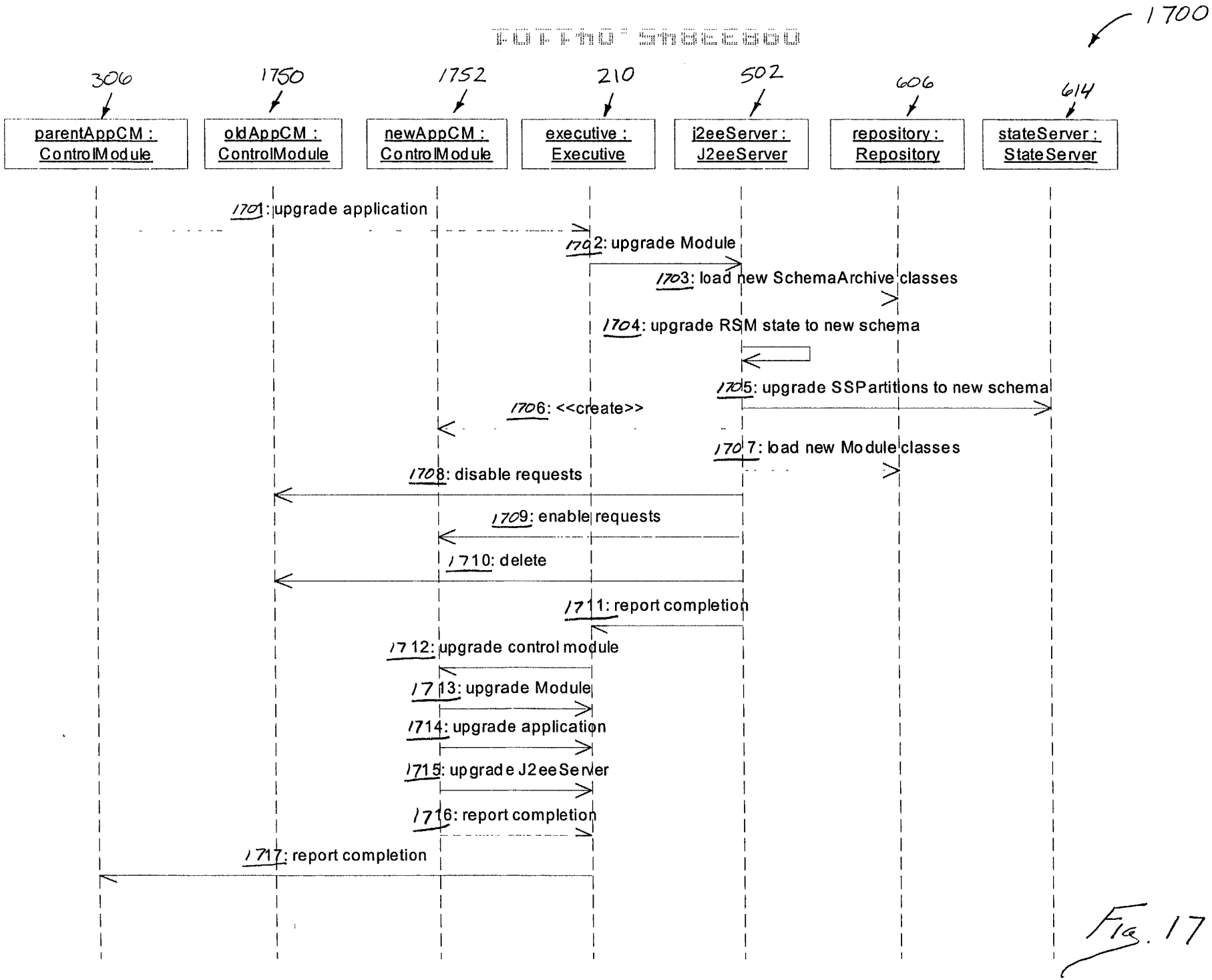
1700
306
1750
1752
210
502
606
614
parentAppCM : ControlModule
oldAppCM : ControlModule
newAppCM : ControlModule
executive : Executive
j2eeServer : J2eeServer
repository : Repository
stateServer : StateServer
1701: upgrade application
1702: upgrade Module
1703: load new SchemaArchive classes
1704: upgrade RSM state to new schema
1705: upgrade SSPartitions to new schema
1706: <<create>>
1707: load new Module classes
1708: disable requests
1709: enable requests
1710: delete
1711: report completion
1712: upgrade control module
1713: upgrade Module
1714: upgrade application
1715: upgrade J2eeServer
1716: report completion
1717: report completion

Fig. 17

PCT/US05/38360

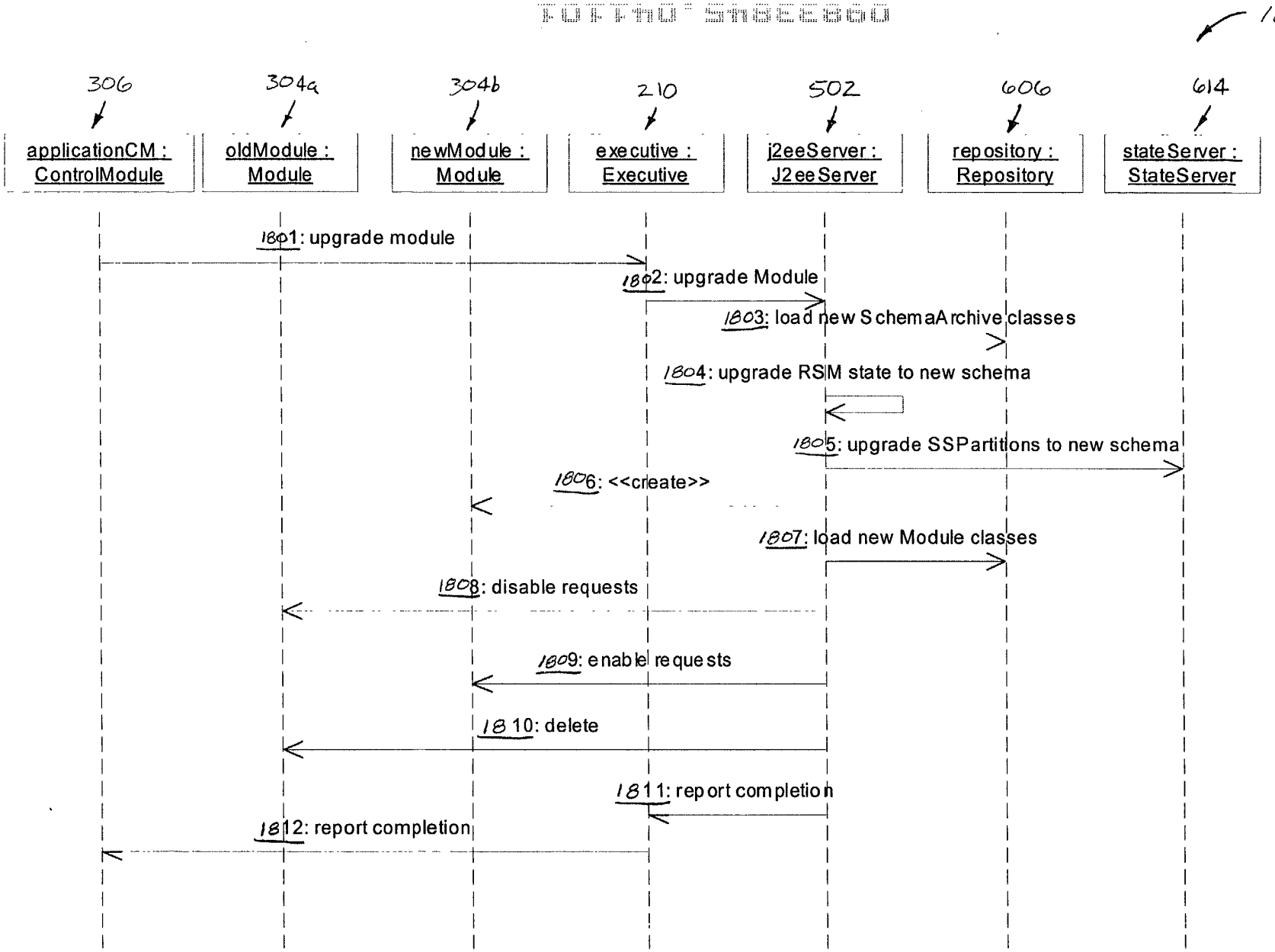

Fig 18

1900

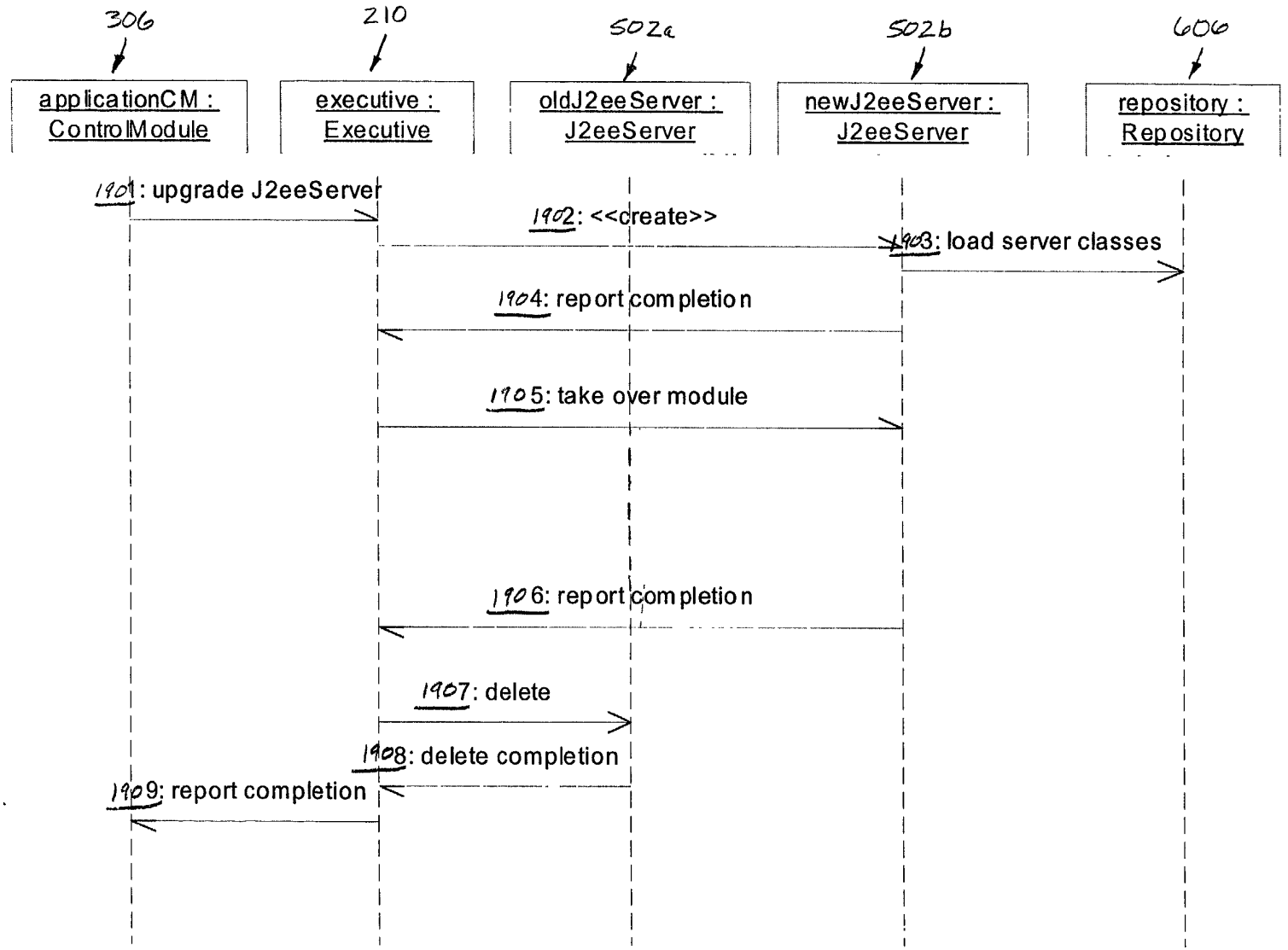
306
210
502a
502b
606
applicationCM : ControlModule
executive : Executive
oldJ2eeServer : J2eeServer
newJ2eeServer : J2eeServer
repository : Repository
1901: upgrade J2eeServer
1902: <<create>>
1903: load server classes
1904: report completion
1905: take over module
1906: report completion
1907: delete
1908: delete completion
1909: report completion

Fig 19

FOUND SHEET

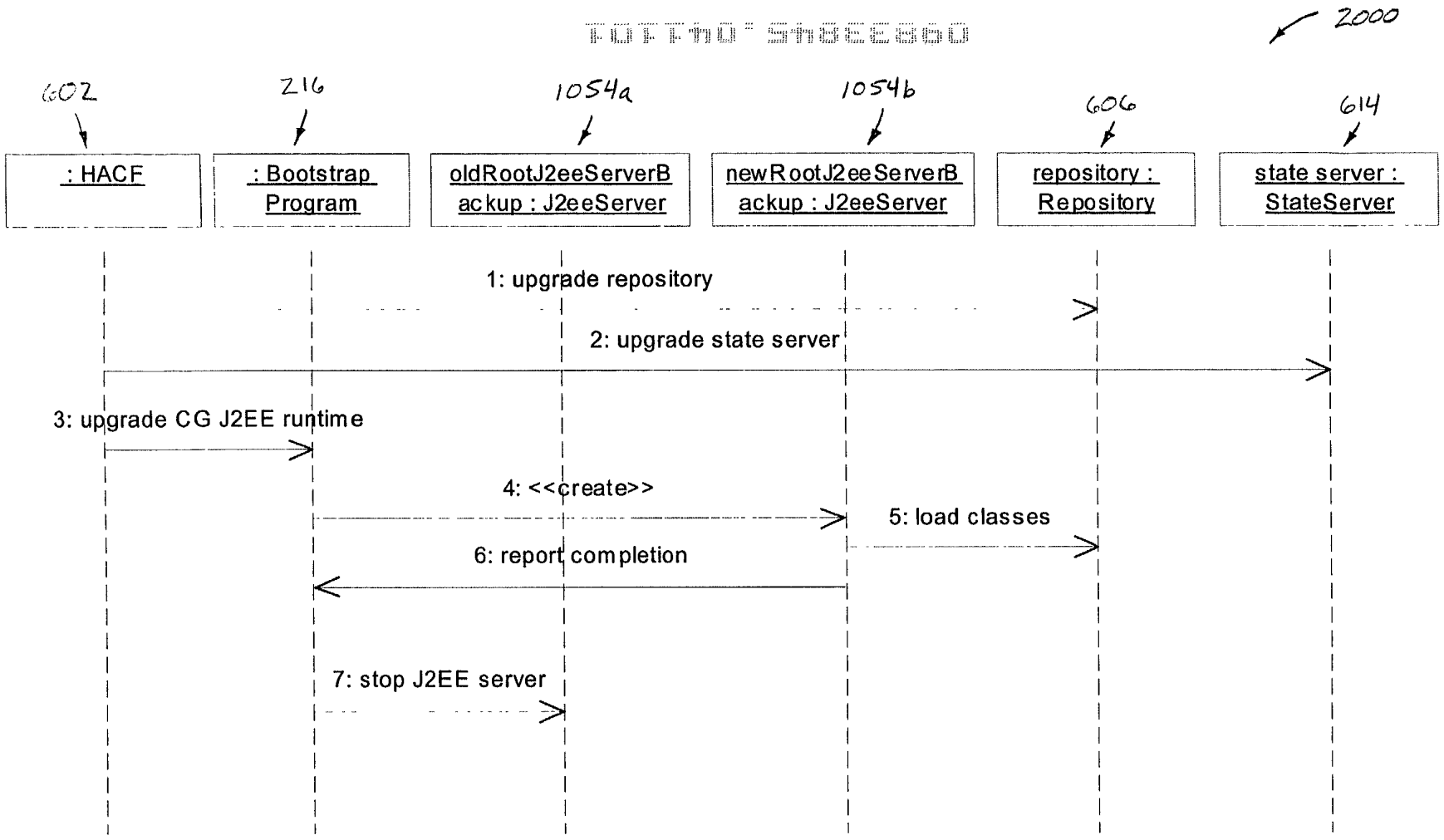

Fig 20

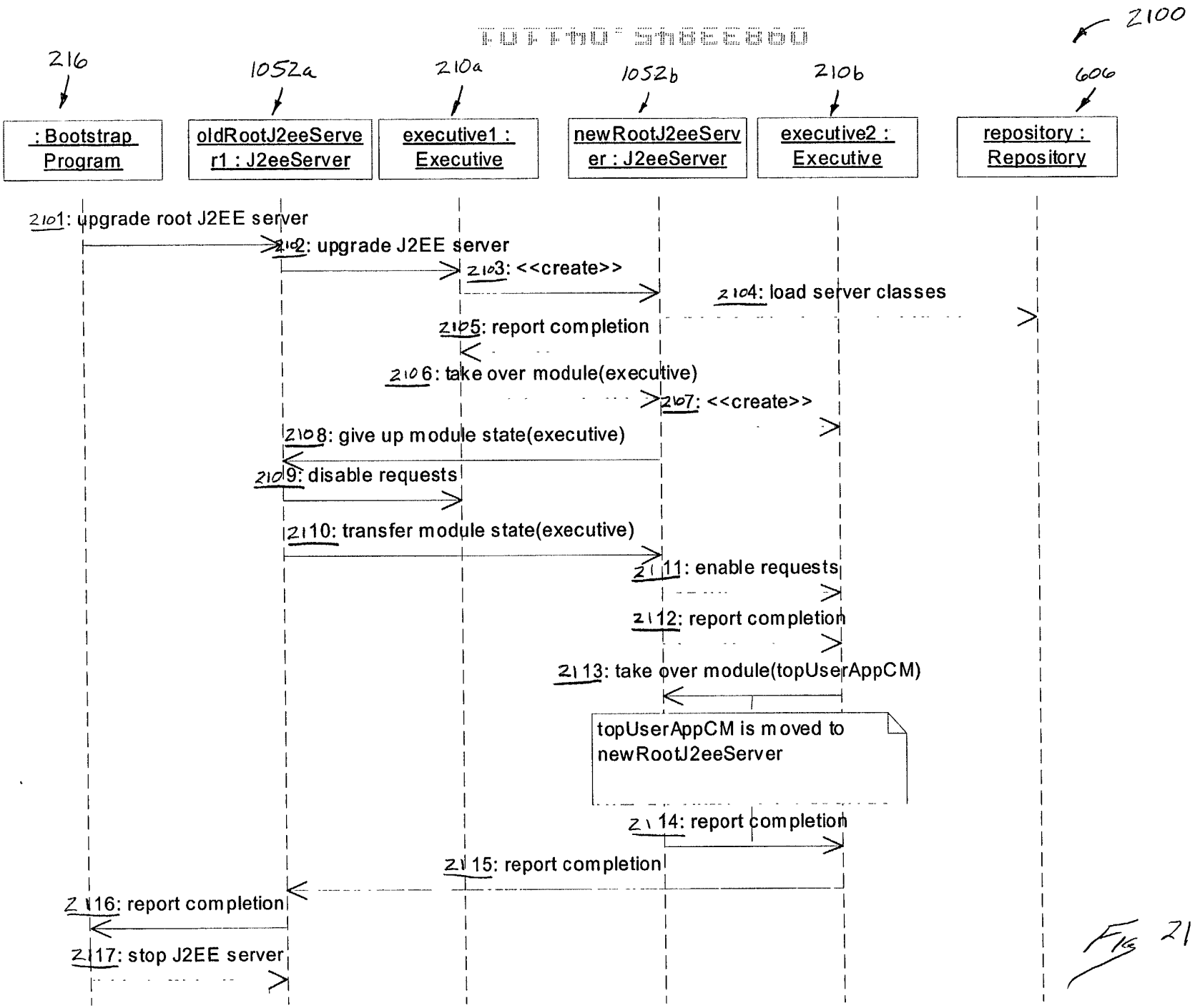
2100
216
1052a
210a
1052b
210b
606
: Bootstrap Program
oldRootJ2eeServer1 : J2eeServer
executive1 : Executive
newRootJ2eeServer : J2eeServer
executive2 : Executive
repository : Repository
2101: upgrade root J2EE server
2102: upgrade J2EE server
2103: <<create>>
2104: load server classes
2105: report completion
2106: take over module(executive)
2107: <<create>>
2108: give up module state(executive)
2109: disable requests
2110: transfer module state(executive)
2111: enable requests
2112: report completion
2113: take over module(topUserAppCM)
topUserAppCM is moved to newRootJ2eeServer
2114: report completion
2115: report completion
2116: report completion
2117: stop J2EE server

Fig 21

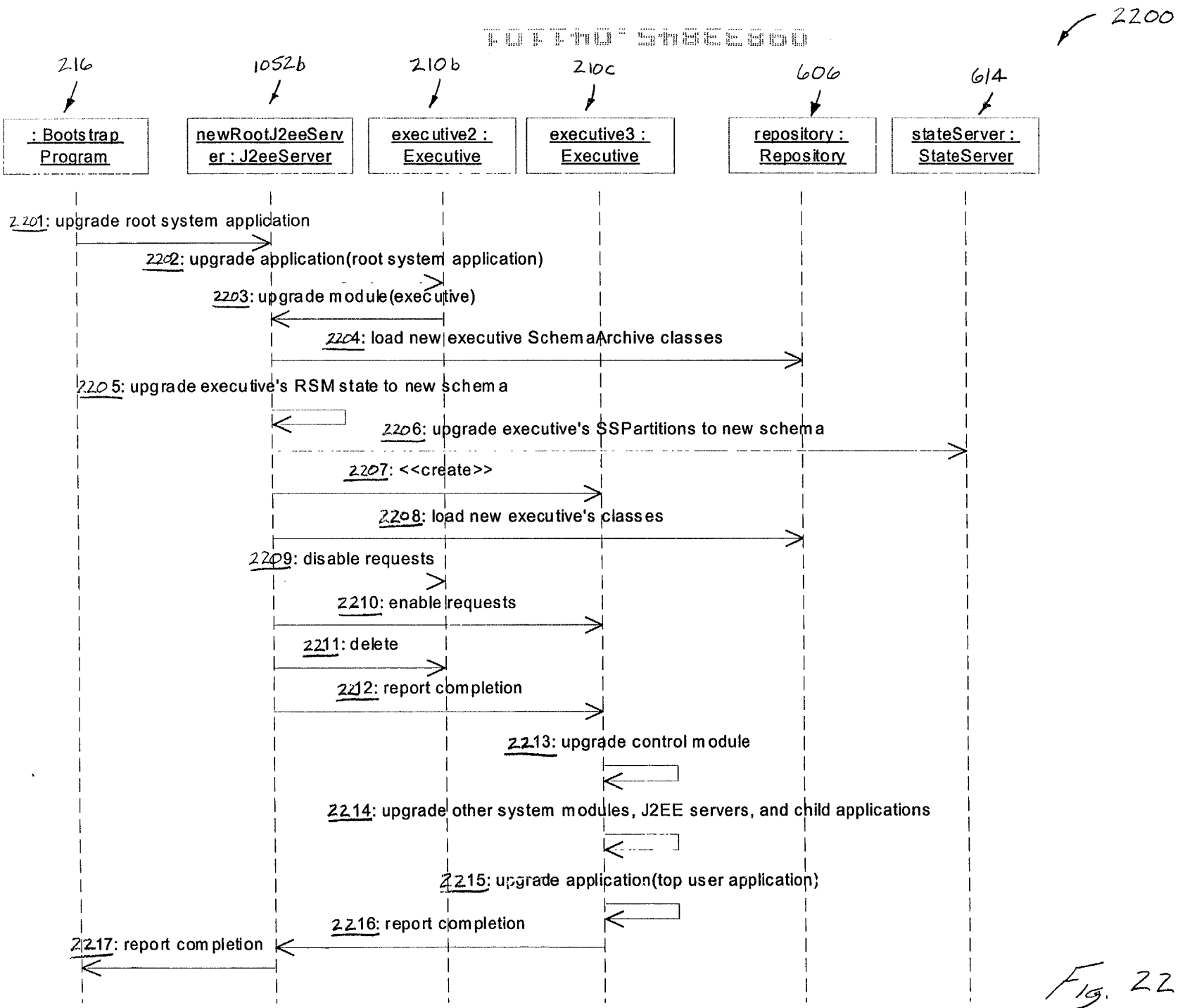
2200
216
1052b
210b
210c
606
614
: Bootstrap Program
newRootJ2eeServer : J2eeServer
executive2 : Executive
executive3 : Executive
repository : Repository
stateServer : StateServer
2201: upgrade root system application
2202: upgrade application(root system application)
2203: upgrade module(executive)
2204: load new executive SchemaArchive classes
2205: upgrade executive's RSM state to new schema
2206: upgrade executive's SSPartitions to new schema
2207: <<create>>
2208: load new executive's classes
2209: disable requests
2210: enable requests
2211: delete
2212: report completion
2213: upgrade control module
2214: upgrade other system modules, J2EE servers, and child applications
2215: upgrade application(top user application)
2216: report completion
2217: report completion

FIG. 22